

IN THE CLAIMS

Please amend the claims as follows:

1. (Canceled)
2. (Currently Amended) The furnace of claim [[1]] 29 wherein the movable floor is movable between a first position and a second position.
3. (Currently Amended) The furnace of claim [[1]] 29 wherein the movable floor is movable between a first position and a second position, the movable floor having an opening therein having a cross-sectional area at least as large as the cross-sectional area within the sidewall and proximate the movable floor.
4. (Currently Amended) The furnace of claim [[1]] 29 wherein the movable floor is movable between a first position where the movable floor has a grill portion therein, the grill portion positioned near an end of the burn pot, and a second position where the movable floor has an opening therein.
5. (Currently Amended) The furnace of claim [[1]] 29 wherein the sidewall includes openings therein for directing air entering the burn pot.
6. (Currently Amended) The furnace of claim [[1]] 29 further comprising an actuator for moving the movable floor.
7. (Currently Amended) The furnace of claim [[1]] 29 wherein the plate translatable through an internal volume of the burn pot moves with the movable floor.
8. (Canceled)
9. (Canceled)

10. (Canceled)
11. (Currently Amended) The furnace of claim ~~[[1]]~~ 29 further comprising an actuator for moving the translatable plate.
12. (Currently Amended) The furnace of claim ~~[[1]]~~ 29 further comprising an actuator for moving the translatable plate and the movable floor substantially simultaneously.
13. (Currently Amended) The furnace of claim 29 wherein the sidewall further comprises A
~~burn pot comprising:~~
 - a first sidewall portion; and
 - a second sidewall portion; ~~and~~
 - ~~a translatable~~ the plate interposed between the first sidewall portion and the second sidewall portion, the ~~translatable~~ plate capable of at least two positions, wherein the plate has an opening therein corresponding substantially to a cross sectional area of an inside area of the first sidewall portion or the second sidewall portion, a position where the inside surface of the opening in the ~~translatable~~ plate is substantially contiguous with the inside surface of the burn pot.
14. (Currently Amended) The ~~burn pot~~ furnace of claim 13 wherein the ~~translatable~~ plate includes a portion capable of separating the first sidewall portion from the second sidewall portion.
15. (Currently Amended) The ~~burn pot~~ furnace of claim 13 wherein the ~~translatable~~ plate includes a portion capable of separating the first sidewall portion from the second sidewall portion, wherein the portion includes a plurality of grill openings therein.
16. (Currently Amended) The ~~burn pot~~ furnace of claim 13 wherein the ~~translatable~~ plate includes an actuator for translating the translatable plate.
17. (Canceled)

18. (Currently Amended) The ~~burn pot~~ furnace of claim ~~[[17]]~~ 13 wherein the movable floor includes a grill in a first area and has an opening therein in a second area.
19. (Currently Amended) The ~~burn pot~~ furnace of claim 18 further comprising an actuator for moving the movable floor between at least a first position and a second position, wherein the grill is positioned near an end of the second portion of the burn pot when in a first position and wherein the opening is positioned near an end of the second portion of the burn pot when in a second position.
20. (Currently Amended) The ~~burn pot~~ furnace of claim ~~[[17]]~~ 29 further comprising an actuator for moving both the movable floor and the translatable plate.
21. (Currently Amended) The ~~burn pot~~ furnace of claim 20 wherein the actuator for moving the movable floor and the translatable plate substantially simultaneously.
22. (Currently Amended) The ~~burn pot~~ furnace of claim 13 further comprising an igniter in fluid communication with the burn pot.
23. (Canceled)
24. (Canceled)
25. (Canceled)
26. (Canceled)
27. (Canceled)
28. (Canceled)
29. (Previously Presented) A furnace comprising:
a combustion chamber;
a burn pot within the combustion chamber further comprising:
a sidewall; and

a plate translatable through an internal volume of the burn pot positioned between the ends of the sidewall, the plate translatable between a first position and a second position, wherein the plate has an opening therein with an area at least as large as a cross-sectional area of the burn pot when in a first position and includes an area capable of covering the cross-sectional area of the burn pot when the plate is in a second position, the plate further including a ramp positioned near the opening in the plate; and

a movable floor, wherein the plate is moved to form separate volumes of the burn pot.